

# Math Without Computing

$$40 \div 7\frac{1}{2} = 5\frac{1}{3}$$

$$12 \div 1\frac{1}{4} = 9\frac{3}{5}$$

$$62\frac{1}{2} \div 4 = 15\frac{5}{8}$$

Use the quotients in the box above to answer the following questions:

- ① Ms. Mundo made 40 ounces of tropical punch to pour into glasses. Each glass holds  $7\frac{1}{2}$  ounces.

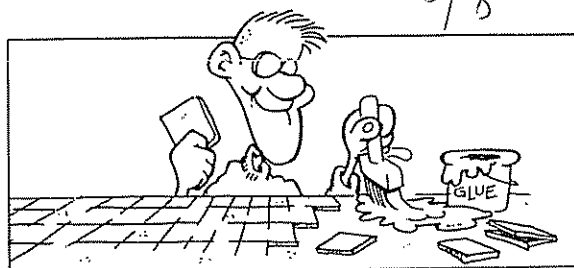
- A. How many glasses will be completely filled? 5  
 B. How many glasses will be needed to hold all the punch? 6  
 C. What fraction of the last glass is full of punch?  $\frac{1}{3}$

- ② Elevator Music, Inc., has been hired to provide 12 hours of continuous taped music. Each tape plays for  $1\frac{1}{4}$  hours.

- A. How many tapes will be needed altogether? 10  
 B. How many of the tapes will be played completely? 9  
 C. What fraction of the last tape will be played?  $\frac{3}{5}$

- ③ Mr. Reznick is gluing ceramic tiles on a kitchen counter  $62\frac{1}{2}$  inches long. Each tile is 4 inches square.

- A. How many complete tiles are used in each row? 15  
 B. How many tiles are needed for each row altogether? 16  
 C. In each row, what fraction of the last tile is used?  $\frac{5}{8}$



- ④ Dawn has 12 yards of silk. She needs  $1\frac{1}{4}$  yards of silk to make one skirt. How many skirts can she make? 9

- ⑤ Mr. Kazoo is planning to build a fence gate 40 inches wide. He plans to use boards  $7\frac{1}{2}$  inches wide. How many boards should he buy? 6

- ⑥ Andrea cut  $62\frac{1}{2}$  inches of ribbon into 4 equal hair ribbons. How long was each hair ribbon?  $15\frac{5}{8}$  "

- ⑦ Nuts to You has 40 pounds of almonds to pack into cans. Each can holds  $7\frac{1}{2}$  pounds. After completely filling as many cans as possible, what part of another can is left?  $\frac{1}{3}$

- ⑧ The coach needs 12 pounds of peanut butter to feed his football team. If he buys peanut butter in jars containing  $1\frac{1}{4}$  pounds, how many jars should he buy? 10

- ⑨ Naoki has  $62\frac{1}{2}$  feet of crepe paper left on a roll. She is cutting it into streamers 4 feet long.

- A. How many 4-foot streamers can she cut? 15  
 B. What fraction of a streamer will be left on the roll?  $\frac{5}{8}$